

WHAT IS CLAIMED IS:

1. A circuit arrangement comprising a power transistor switching stage providing an output voltage and an active EMI filter having an input and an output, the input of the active EMI filter connected to receive the output voltage and the output of the active EMI filter providing a filtered output voltage.
2. The circuit arrangement of claim 1, wherein the power transistor switching stage comprises an output stage comprising an inductor and a capacitor with the output voltage provided across the capacitor.
3. The circuit arrangement of claim 1, wherein the active EMI filter comprises an amplifier stage having two transistors each controlled by a current sensor, the current sensor sensing the presence of a common mode current to a load connected to the active EMI filter, said two transistors having a common connection coupled to an isolating capacitor coupled to a ground line, the isolating capacitor passing a current to cancel the common mode current in said ground line.
4. The circuit arrangement of claim 3, wherein the two transistors are complementary.
5. The circuit arrangement of claim 3, wherein the ground line connects the load and the power transistor switching stage.
6. The circuit arrangement of claim 1, wherein the output voltage of the power transistor switching stage is DC.
7. The circuit arrangement of claim 1, wherein the output voltage of the power transistor switching stage is AC.

8. The circuit arrangement of claim 1, wherein the power transistor switching stage is a switch mode power supply.

9. The circuit arrangement of claim 1, wherein the power transistor switching stage is a converter.